

Title (en)  
OPENING DEVICE FOR A PACKAGE, MOLD FOR MOLDING AN OPENING DEVICE FOR A PACKAGE AND PACKAGE HAVING AN OPENING DEVICE

Title (de)  
ÖFFNUNGSVORRICHTUNG FÜR EINE VERPACKUNG, FORM ZUM FORMEN EINER ÖFFNUNGSVORRICHTUNG FÜR EINE VERPACKUNG UND VERPACKUNG MIT EINER ÖFFNUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF D'OUVERTURE POUR UN EMBALLAGE, MOULE POUR MOULER UN DISPOSITIF D'OUVERTURE POUR UN EMBALLAGE ET EMBALLAGE DOTÉ D'UN DISPOSITIF D'OUVERTURE

Publication  
**EP 4159634 A1 20230405 (EN)**

Application  
**EP 22196515 A 20220920**

Priority  
EP 21200038 A 20210930

Abstract (en)  
There is described an opening device (3, 3') for a package (1) having a designated pour opening. The opening device (3, 3') comprises a contact portion and a closing element (7) detachably and/or rupturably attached to the contact portion. The closing element (7) comprises a main wall (16) detachably and/or rupturably attached to the contact portion and a pulling device (17) connected to the main wall (16) and configured to allow for the exertion of a separation force on the main wall (16) so as to detach the closing element (7) from the contact portion. The pulling device (17) comprises a plurality of leg elements (19) connected to and transversally extending from the main wall (16) and a coupling structure (20) connected to the plurality of leg elements (19). Each leg element (19) comprises an elongated pillar (22) extending along a longitudinal axis (F) and at least one stiffening rib (25) connected to a connection portion (26) of the pillar (22). Each connection portion (26) has a first extension (E1) along the respective longitudinal axis (G) that equals or is less than half of a second extension (E2) along the respective longitudinal axis (G) of the respective pillar (22) from a first end (23) to a second end (24) of the pillar (22).

IPC 8 full level  
**B65D 5/74** (2006.01); **B29C 37/00** (2006.01); **B29C 45/14** (2006.01); **B65D 47/10** (2006.01)

CPC (source: EP)  
**B65D 5/749** (2013.01); **B29C 37/0057** (2013.01); **B29C 45/14344** (2013.01); **B29L 2031/565** (2013.01); **B65D 2251/0015** (2013.01); **B65D 2251/0087** (2013.01)

Citation (search report)

- [Y] US 2017327276 A1 20171116 - MARTINI PIETRO [IT], et al
- [Y] US 2019359370 A1 20191128 - WINBERG PETRA [SE], et al
- [A] JP 2014084141 A 20140512 - TOPPAN PRINTING CO LTD
- [A] JP 2007223668 A 20070906 - YOSHINO KOGYOSHO CO LTD
- [A] WO 0125106 A1 20010412 - ARGO SA PLASTIC PACKAGING MATE [GR], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4159634 A1 20230405**; **EP 4159634 B1 20240327**; **EP 4159634 C0 20240327**; CN 117999228 A 20240507; ES 2981661 T3 20241009; JP 2024535243 A 20240930; MX 2024003705 A 20240409; WO 2023052183 A1 20230406

DOCDB simple family (application)  
**EP 22196515 A 20220920**; CN 202280065148 A 20220920; EP 2022076024 W 20220920; ES 22196515 T 20220920; JP 2024516578 A 20220920; MX 2024003705 A 20220920